WHAT IS CLAIMED IS:

1. A transgenic cotton plant or seed, cells or tissues thereof comprising event EE-GH1 in its genome.

2. The transgenic cotton plant, or seed, cells or tissues of claim 1, the genomic DNA of which, when analyzed using the Elite event identification protocol for EE-GH1 with two primers comprising the nucleotide sequence of SEQ ID NO: 2 and SEQ ID NO: 3 respectively, yields a DNA fragment of between 250 and 290 bp.

3. The cotton plant, or seed, cells or tissues thereof, according to claim 2, wherein said DNA fragment is a fragment of about 269 bp.

4. A cotton plant, or seed, cells or tissues thereof, obtained by propagation of and/or breeding with a cotton plant grown from the seed deposited at the ATCC under accession number PTA-3343.

5. A cotton plant, seed, cells or tissues thereof which is the progeny of the seed deposited at the ATCC under accession number PTA-3343

6. A method for identifying elite event EE-GH1 in biological samples, which method comprises detecting an EE-GH1 specific region with a primer or probe which specifically recognizes the 5' flanking region of SEQ ID NO: 3 or the 3' flanking region of SEQ ID NO: 4 of EE-GH1.

7. The method of claim 6, said method comprising amplifying a DNA fragment of between 100 and 350 bp from a nucleic acid present in said biological samples using a polymerase chain reaction with at least two primers, one of which recognizes the 5' or 3' flanking region of EE-GH1 and the other which recognizes a sequence within the foreign DNA of EE-GH1.

8. The method of claim 7, wherein said one primer recognizes a sequence within the 5' flanking region of SEQ ID NO: 3 and said other primer recognizes a sequence within the foreign DNA of EE-GH1.

9. The method of claim 8, wherein said primer recognizing a sequence within the 5' flanking region of EE-GH1 comprises the sequence of SEQ ID NO: 2.

10. The method of any one of claims 6 to 9, wherein said primer recognizing a sequence within the foreign DNA comprises the sequence of SEQ ID NO: 1.

11. A method for identifying EE-GH1 in a biological sample, which method comprises detecting an EE-GH1 specific region with a specific primer or probe which hybridizes under stringent conditions to a sequence within the 5' of SEQ ID NO: 3 or within the 3' flanking sequence of SEQ ID NO: 4 of EE-GH1.

12. A method for identifying a transgenic plant, or cells or tissues thereof, comprising the elite event EE-GH1, which method comprises establishing that genomic DNA can be used, according to a PCR identification protocol, to amplify a DNA fragment of between 250 and 290 bp, using a polymerase chain reaction with two primers having the nucleotide sequence of SEQ ID NO: 1 and SEQ ID NO: 2, respectively.

13. A kit for identifying elite event EE-GH1 in biological samples, said kit comprising at least one PCR primer or probe, which recognizes a sequence within the 5' flanking region of SEQ ID NO: 3 or the 3' flanking region of SEQ ID NO: 4 of EE-GH1.

14. The kit of claim 13, wherein said at least one PCR primer recognizes a sequence within the plant DNA in SEQ ID NO: 3.

15. The kit of claim 14, wherein said primer recognizing a sequence within the plant DNA in SEQ ID NO: 3 comprises the sequence of SEQ ID NO: 2.

16. The kit of Claims 13 to 15, which further comprises at least a second PCR primer or probe which recognizes a sequence within the foreign DNA of EE-GH1.

17. The kit of claim 16, wherein said primer recognizing a sequence within the foreign DNA of EE-GH1 comprises the sequence of SEQ ID NO: 1.

18. A method for confirming seed purity, which method comprises detecting an EE-GH1 specific DNA sequence with a specific primer or probe which specifically recognizes a sequence within the 5' flanking region of SEQ ID NO: 3 or the 3' flanking region of SEQ ID NO: 4 of EE-GH1, in seed samples.

19. A method for screening seeds for the presence of EE-GH1, which method comprises detecting an EE-GH1 specific DNA sequence with a specific primer or probe which specifically recognizes a sequence within the 5' flanking region of SEQ ID NO: 3 or the 3' flanking region of SEQ ID NO: 4 of EE-GH1, in samples of seed lots.

20. A seed deposited at the ATCC under accession number PTA-3343.

21. A cotton seed comprising elite event EE-GH1, reference seed comprising said event having been deposited at the ATCC under accession number PTA-3343.

22. A cotton plant, cell or tissue or plant material thereof comprising elite event EE-GH1, derived from the seed of claim 21.

23. Transgenic cotton plants, seeds, cells or tissues, the genomic DNA of which comprises a transgene integrated into the chromosomal DNA in a region which comprises a sequence of at least 40 bp which hybridizes under stringent conditions with a sequence which is complementary to the sequence of SEQ ID NO: 5.

24. A process for producing a transgenic cotton plant or cell or tissue of a cotton plant, said process comprising introducing a recombinant DNA molecule into a region of cotton chromosomal DNA corresponding to a sequence of at least 40 bp that hybridizes under stringent conditions with a sequence that is complementary to the sequence of SEQ ID NO: 5, and, optionally, regenerating a cotton plant from the transformed cotton cell or tissue.

25. The process of claim 24, wherein said recombinant DNA molecule comprises an herbicide resistance gene.

26. The plant or cell or tissue of a cotton plant obtained by the process of claims 24 or 25.

27. A transgenic cotton plant or seed, cells or tissues thereof comprising

(i) event EE-GH1 in its genome ;or

(ii) event EE-GH1 with the proviso that the *bar* gene used in the event is substituted with a nucleic acid sequence that hybridizes to the complement of the *bar* gene under stringent conditions.